



RV

SERVICE MANUAL

# SOKIII & SUMMIT

SIDE-OUT COVER

THIS MANUAL CONTAINS INFORMATION FOR: **SOKIII, SOKIII XL  
SUMMIT, SUMMIT XL  
SUMMIT FI, AND SUMMIT FIXL**



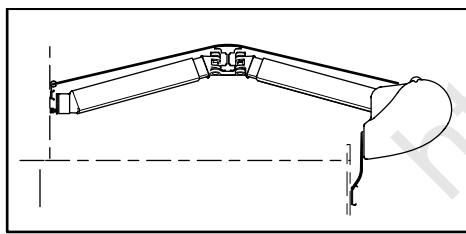
SOKIII



Summit



Summit XL



Summit w/ Peaked Contour

***These instructions apply to all models listed. Details and procedures unique to a specific model are labeled appropriately***

## **PROPRIETARY STATEMENT**

The SOKIII and Summit series of Side-Out Room Covers is a product of Carefree of Colorado, located in Broomfield, Colorado, USA. The information contained in or disclosed in this document is considered proprietary to Carefree of Colorado. Every effort has been made to ensure that the information presented in the document is accurate and complete. However, Carefree of Colorado assumes no liability for errors or for any damages that result from the use of this document.

The information contained in this manual pertains to the current configuration of the models listed on the title page. Earlier model configurations may differ from the information given. Carefree of Colorado reserves the right to cancel, change, alter or add any parts and assemblies, described in this manual, without prior notice.

Carefree of Colorado agrees to allow the reproduction of this document for use with Carefree of Colorado products only. Any other reproduction or translation of this document in whole or part is strictly prohibited without prior written approval from Carefree of Colorado.

## **SAFETY INFORMATION**

---

### **⚠WARNING**

**A WARNING INDICATES A POTENTIALLY HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY AND/OR MAJOR PROPERTY DAMAGE.**

### **⚠CAUTION**

**A CAUTION INDICATES A POTENTIALLY HAZARDOUS SITUATION THAT MAY CAUSE MINOR TO MODERATE PERSONAL INJURY AND/OR PROPERTY DAMAGE. IT MAY ALSO BE USED TO ALERT AGAINST UNSAFE PRACTICES.**

**NOTE:** A note indicates further information about a product, part, or step.

*Tip:* A tip provides helpful suggestions.

#### Safety Notes:

- Always disconnect battery or power source before working on or around the electrical system.
- Always wear appropriate safety equipment (i.e. goggles).
- Always use appropriate lifting devices and/or helpers when lifting or holding heavy objects.
- When using fasteners, use care to not over tighten. Soft materials such as fiberglass and aluminum can be "stripped out" and lose the ability to grip and hold.

#### **Reference Publications located @ [www.carefreeofcolorado.com](http://www.carefreeofcolorado.com):**

- 052557-001 **SOK III Installation Manual**  
052557-011 **SOK III XL Installation Manual**  
052520-001 **Summit Installation Manual**  
052543-001 **Summit XL Installation Manual**  
052541-001 **Summit FI Installation Manual**  
052543-101 **Summit XL w/ FI Hardware Installation Manual**  
052530-001 **Summit Upgrade for SOK II (Discontinued)**  
052520-301 **SOKIII & Summit Service Manual**

## TABLE OF CONTENTS

<b>Product Overview .....</b>	<b>2</b>
Summit Arm Application Criteria .....	3
<b>The Front Cover.....</b>	<b>4</b>
For Rooms Under 191" .....	4
To Open the Cover.....	4
To Remove the Cover .....	4
Attaching the Front Cover .....	4
For XL Models .....	6
Removing the Cover .....	6
Attaching the Front Cover .....	7
Cover Bumpers .....	8
<b>End Cap Replacement.....</b>	<b>9</b>
Notes on Using an Existing Cover .....	9
<b>Canopy Replacement.....</b>	<b>10</b>
Removing the Old Fabric .....	10
Installing the New Fabric.....	10
<b>Standard Spring/Roll Bar Replacement.....</b>	<b>11</b>
Removing the Roll Bar Assembly .....	11
Rebuilding the Roll Bar Assembly .....	12
Installing the Roll Bar.....	12
<b>Replacing the XL Roll Bar.....</b>	<b>13</b>
<b>Replacing the Lift Bar Components.....</b>	<b>15</b>
To Replace the Lift Arms .....	15
To Replace the Lift Bar .....	16
Setting the Stop Bolts .....	16
<b>Standard Maintenance .....</b>	<b>17</b>
Fabric Care .....	17
Mildew .....	17
Pooling .....	17
Hardware Maintenance.....	17
<b>Part Number Listing .....</b>	<b>18</b>
Part Number/Serial Number Location .....	18
SOK III Illustrated Parts List.....	19
Summit FI Illustrated Parts List.....	20
Basic Summit Illustrated Parts List .....	22

## PRODUCT OVERVIEW

Carefree's SOKIII & Summit side-out cover is available in 5 basic versions:

**SOKIII:** Provides a side-out cover with clean, stylized appearance with a standard integrated deflector. No locks or anti-billow hardware is required. This style is available for standard and XL widths.

**Basic Summit:** Building on the SOKIII, The Summit employs a unique lift bar system to provide a peaked contour to the fabric when the room is open; yet stores beneath the fabric when the room is closed. This is excellent for shedding water and to prevent pooling on the canopy. This version is commonly used for OEM installations.

**Summit FI (Flexible Install):** Using the same lift bar system of the basic Summit, the mounting hardware is designed to provide greater flexibility for installations. The FI uses a lower profile wall mounting bracket that can adapt to a variety of mounting surface conditions. The wall mounting brackets and lift arms are not interchangeable with the basic Summit. Because of the versatility, this is the popular version used for aftermarket applications.

**Summit XL:** Designed for rooms 192" to 390" wide, the unit uses the same hardware as the basic Summit. The major extrusions (deflector, roll bar and cover) are made in two pieces and spliced together during installation. Used for custom OEM applications.

**Summit FIXL:** Same as the XL above except with the FI lift bar hardware.

### Options:

**Deflector Mounting Brackets:** For Summit applications, two standard bracket styles are available to mount the deflector/roll bar to the room face. A short bracket and a tall bracket. The brackets can be mounted into the room structure for stability while accommodating a variety of flange heights.

**Front Cover (Case):** The cover is available for all versions of the SOKIII & Summit. When installed, it provides a closed case for the roll bar and fabric. The cover can be easily opened and/or removed for cleaning and service.

**Awning Rail Extension/Gutter:** For FI installations, an optional rail extension is available. This allows the installer to use an existing rail while providing clearance for the lift bar and arms. A unique V-rail is standard equipment for the XL versions w/ lift bars.

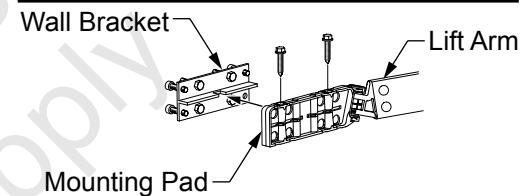
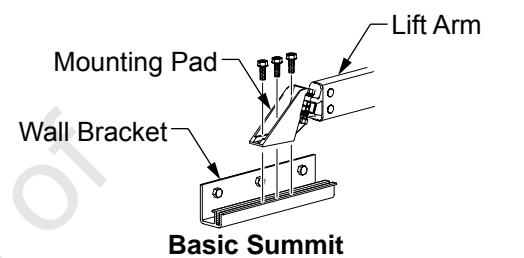
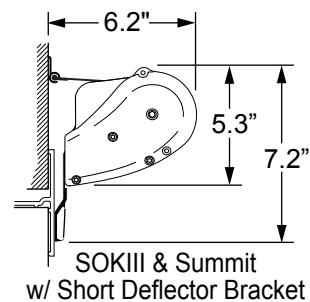
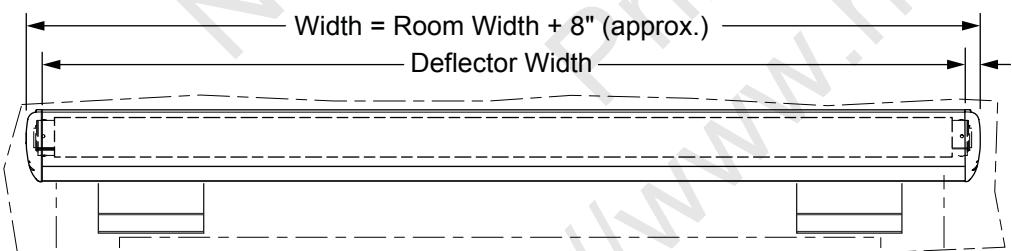
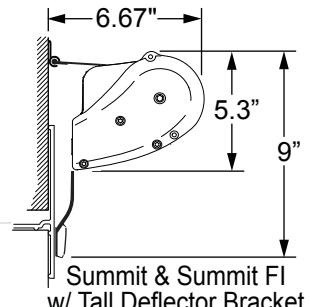
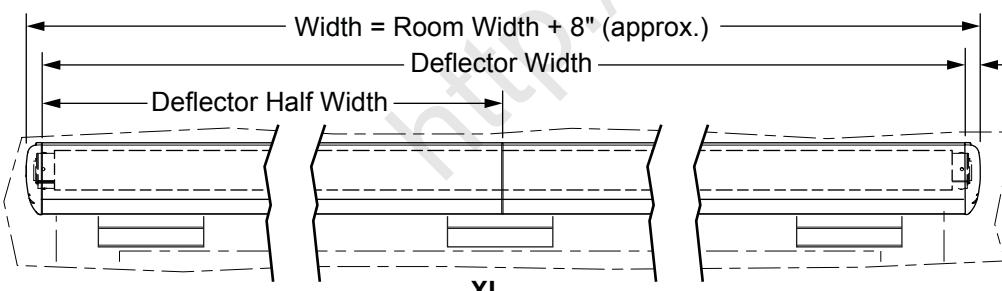


Figure 1. Identifying Lift Hardware.



Standard



XL

Summit & Summit FI  
w/ Tall Deflector Bracket

Dimensions are approximate, actual dimensions may vary based on the side-out configuration and options installed.

SOK3048

Figure 2. General Dimensions.

**SUMMIT ARM APPLICATION CRITERIA**

**AVAILABLE ROOM WIDTHS:**    **BASIC & FI**      42" – 191"  
**XL & FIXL**      192" – 390"

**AVAILABLE EXTENSIONS:**    12" – 42"

**AVAILABLE LIFT ARM APPLICATIONS (ROOM WIDTH VS ROOM EXTENSION)**

	ROOM WIDTH																									
	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67-390
Room Extension	12																									
13																										
14																										
15																										
16																										
17																										
18																										
19																										
20																										
21																										
22																										
23																										
24																										
25																										
26																										
27																										
28																										
29																										
30																										
31																										
32																										
33																										
34																										
35																										
36																										
37																										
38																										
39																										
40																										
41																										
42																										

Lift Bar Option Not Available For These Combinations

**RESTRICTIONS:** The Lift Bar Option is not suitable under any of the following conditions.

1. Flat Drop Rooms and rooms where the room face drops more than the ranges given below

ROOM EXTENSION	12"-19"	20"-25"	26"-31"	32"-37"	38"-42"
ALLOWABLE DROP	.5"	.75"	1"	1.25"	1.5"

The value is determined by measuring the height of the flange when the room is closed then opening the room completely and measuring the height of the flange again. If the difference exceeds the ranges above, the lift bar option is not suitable.

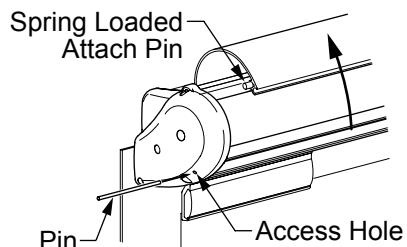
2. Rooms with an awning mounted over the top of the slide-out room.
3. Rooms with an awning mounted on the face of the room where the top of the roll bar is less than 1/2" below the roof line of the room when the room is closed.
4. Recessed rooms. The lift bars store between the coach wall and the awning; when the room is closed there is not enough clearance for the lift bar assembly.
5. Measurement from the roof line of the room to the top of the flange cannot exceed 4 7/8 inches (long bracket).

## THE FRONT COVER

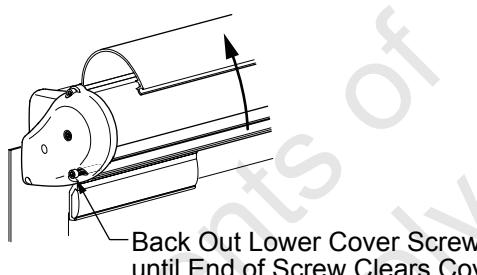
### FOR ROOMS UNDER 191"

#### To Open the Cover

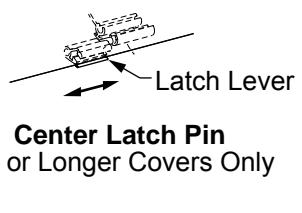
For ease of cleaning, the front cover can be rotated out of the way. Two methods are used to attach the front cover. Early Summits use spring-loaded pins that project from the cover and into the end cap. SOK III's and current Summits use screws that are threaded through the end cap and project into the cover.



**Spring Loaded Pin Attach**



**Threaded Screw Attach**



**Figure 3. Opening the Front Cover.**

SOK3005b

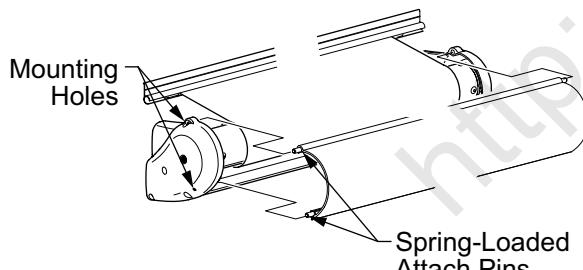
1. *For covers 12 feet and longer:* Locate the latch lever at the center of the cover. Using a screw driver or similar tool, push the lever to the left and hold; carefully pull the center of the cover out until the pin clears the latch.
2. *For spring-loaded pins:* Using a small pin through the lower access hole in one end cover, press in the lower attach pin then pivot the cover until the pin clears the hole. Repeat for the other end then rotate the cover out of the way.
3. *For threaded screws:* Unscrew the lower allen head screw until the end of the screw clears the cover. Repeat for other side then rotate the cover out of the way.

#### To Remove the Cover

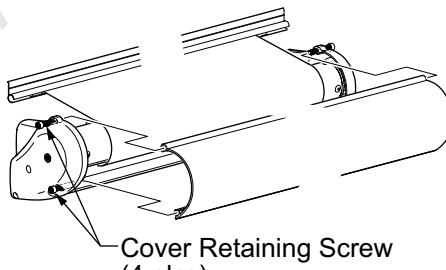
1. *For covers 12 feet and longer:* Locate the latch lever at the center of the cover. Using a screw driver or similar tool, push the lever to the left and hold; carefully pull the center of the cover out until the pin clears the latch.
2. *For spring-loaded pins:* Using a small pin through the lower access hole in one end cover, press in the lower attach pin then carefully pull the cover until the pin clears the hole. Then do the same for the upper pin. Repeat the process of the other end and set the cover aside.
3. *For threaded screws:* Unscrew the allens head screws in both end caps until the end of the screws clears the cover, it is not necessary to remove the screws from the end caps. Repeat for other side then lift the cover up and set aside.

#### Attaching the Front Cover

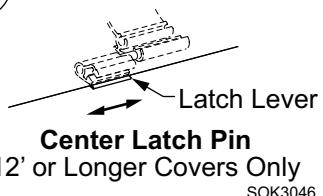
Two methods are used to attach the cover. The first method uses spring-loaded pins that project from the cover and into the end cap. This design has been discontinued in 2007. The second method uses screws that thread through the end cap and project into the cover.



**Method 1 - Spring-Loaded Pin Attach**



**Method 2 - Screw Attach**



SOK3046

**Figure 4. Attaching the Front Cover.**

Method 1 Spring-Loaded Pin Attach:

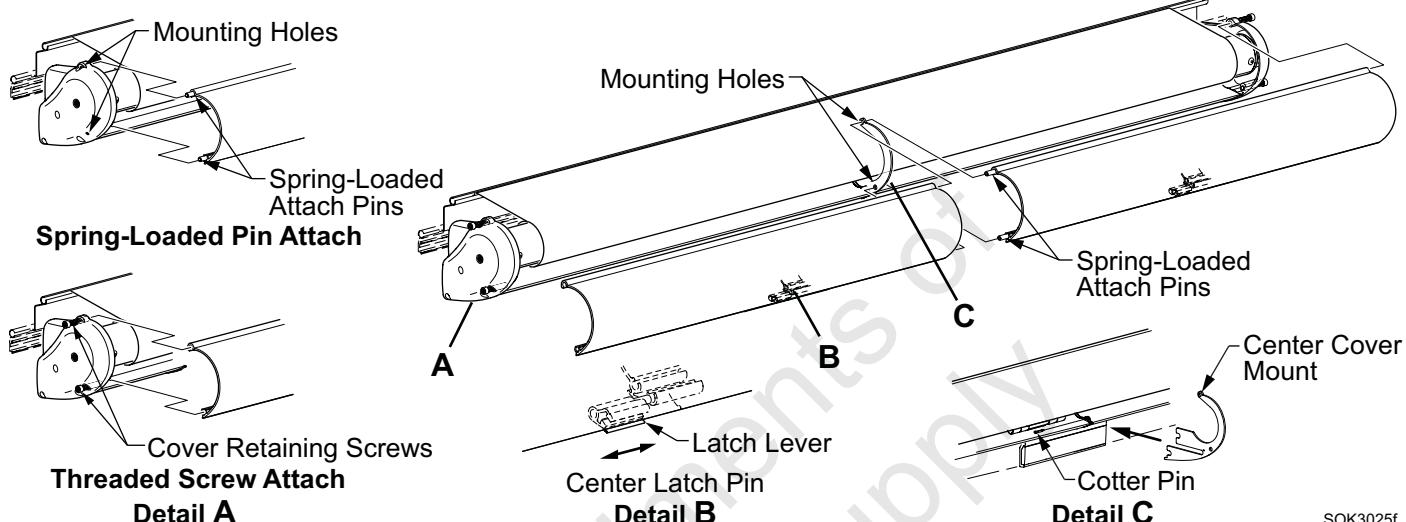
1. Place the top pin of one end of the cover into the mounting hole of the end cap.
2. On the other end of the cover, press the top pin into the cover and set the cover into position. Adjust the position until the pin springs out and into the mounting hole of the second end cap.
3. Repeat the procedure for the bottom pins.
4. *For covers 12 feet and longer.* Locate the latch lever at the center of the cover. Using a screw driver or similar tool, push the lever to the left and hold; press the cover into position then release the latch lever. The latching pin is spring loaded and will slide into the locking channel.

Method 2 Screw Attach:

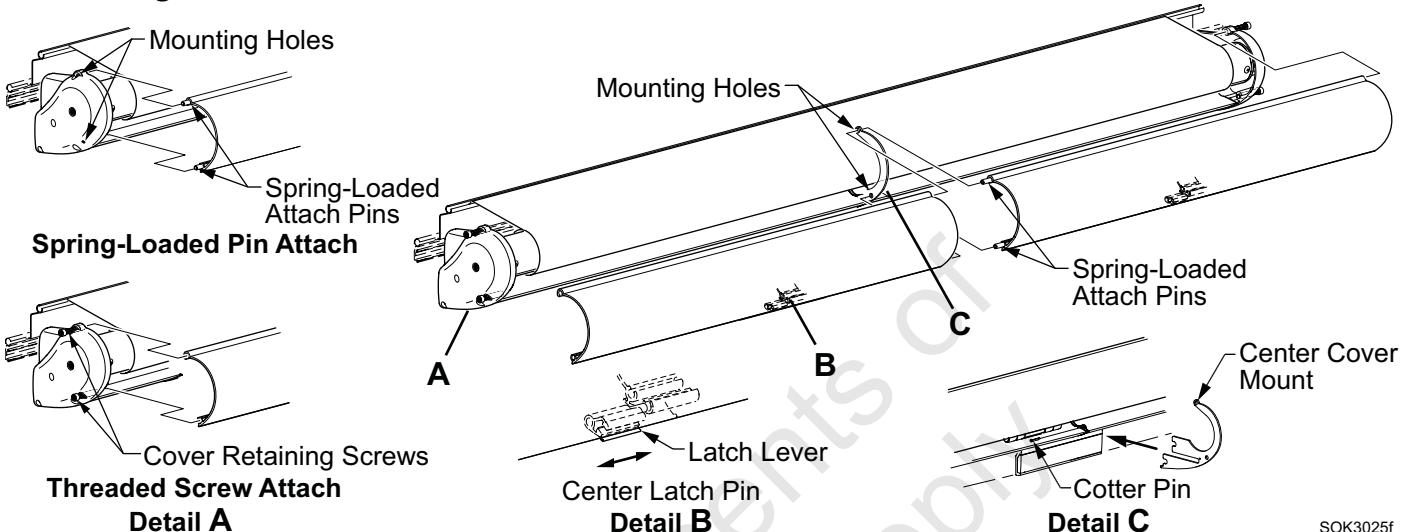
1. If removed, thread the 1/4-20 x 1 1/2 socket head screws into the end caps. On one side thread the screws until flush with the inside of the end cap. On the other side, thread the screws until they project out of the end cap approximately 1/2".

**NOTE: If replacing the end caps: the bottom screw holes are threaded at the factory. It will be necessary to force-thread the top holes in the end cap using the supplied screws.**

2. Lift the cover up and place one end over the screws that project out of the end cap. The screws fit into the slots of the cover.
3. Align the cover with the other end cap and thread in all the attach screws thru the end caps and into the cover. Hand-tighten only.
4. *For covers 12 feet and longer.* Locate the latch lever at the center of the cover. Using a screw driver or similar tool, push the lever to the left and hold; press the cover into position then release the latch lever. The latching pin is spring loaded and will slide into the locking channel.

**FOR XL MODELS***Removing the Cover*

1. Remove the LH half of the front cover.
  - 1.1 Locate the latch lever at the center of the cover. Using a screw driver or similar tool, push the lever to the left and hold; carefully pull the center of the cover out until the latch pin cannot engage the locking channel.
  - 1.2 *For spring-loaded pins:* Using a small pin through the access holes in the LH end cover, press in the lower attach pin then carefully pull the cover until the pin clears the hole. Repeat for top hole. Lift the cover up and away from the center cover mount. Set cover aside.
  - 1.3 *For threaded screws:* Unscrew the allens head screws in the LH end cap until the end of the screws clears the cover, it is not necessary to remove the screws from the end caps. Pull the cover up and away from the center cover mount. Set cover aside.
2. Remove the RH half of the front cover.
  - 2.1 Locate the latch lever at the center of the cover. Using a screw driver or similar tool, push the lever to the left and hold; carefully pull the center of the cover out until the latch pin cannot engage the locking channel.
  - 2.2 *For spring-loaded pins:* Press in the attach pins in the center cover mount and lift the cover up until the pins clear the holes. Pull the cover from the RH end cap. Set cover aside.
  - 2.3 *For threaded screws:* Unscrew the allens head screws in the RH end cap until the end of the screws clears the cover, it is not necessary to remove the screws from the end caps. Pull the cover up and away from the center cover mount. Set cover aside.
3. For fabric replacement or roll bar service, remove the cotter pin and center cover mount. Set parts aside.

*Attaching the Front Cover***Figure 5. Attaching the Front Cover.**

SOK3025f

1. If removed, insert the center cover mount into the deflector splice and around the rolled fabric. Secure with the cotter pin removed earlier.

*For Spring-Loaded Pin Mounts:*

2. Examine the two cover halves. The RH half has spring loaded attachment pins on both ends; the second half has pins on one end only.
3. Lift the RH cover up and set the pins into the mounting holes of the RH end cap.
4. In the center, press the pins into the cover and set into position. Adjust the position until the pins pop out through the mounting holes of the center support.
5. Lift the second cover half up and slide the inside end onto the protruding attach pins of the first cover.
6. At the LH end cap, press the pins into the cover and set cover into position. Adjust the position until the pins pop out into the mounting holes of the end cap.
7. Locate the latch lever at the center of the covers. Using a screw driver or similar tool, push the lever to the left and hold; press the cover into position then release the latch lever. The latching pin is spring loaded and will slide into the locking channel.

*For Threaded Screw Mounts:*

2. Examine the two cover halves. One half has spring loaded attachment pins on one end, the second has none. Lift the first cover half with the pins and insert the pins through the mounting holes of the center cover support.
3. Align the cover with the RH end cap and screw the cover retaining 1/4-20 x 1 1/2 socket head screws through the end cap and into the cover. Hand-tighten only.

**NOTE: If replacing the end caps: the bottom screw holes in the end caps are threaded at the factory. It will be necessary to force-thread the top holes in the end cap using the supplied screws.**

4. Lift the second cover half up and slide the inside end onto the protruding attach pins of the first cover.
5. Align the second cover with the end cap and screw the cover retaining screws through the end cap and into the cover. Hand-tighten only.
6. Locate the latch lever at the center of the covers. Using a screw driver or similar tool, push the lever to the left and hold; press the cover into position then release the latch lever. The latching pin is spring loaded and will slide into the locking channel.

## COVER BUMPERS

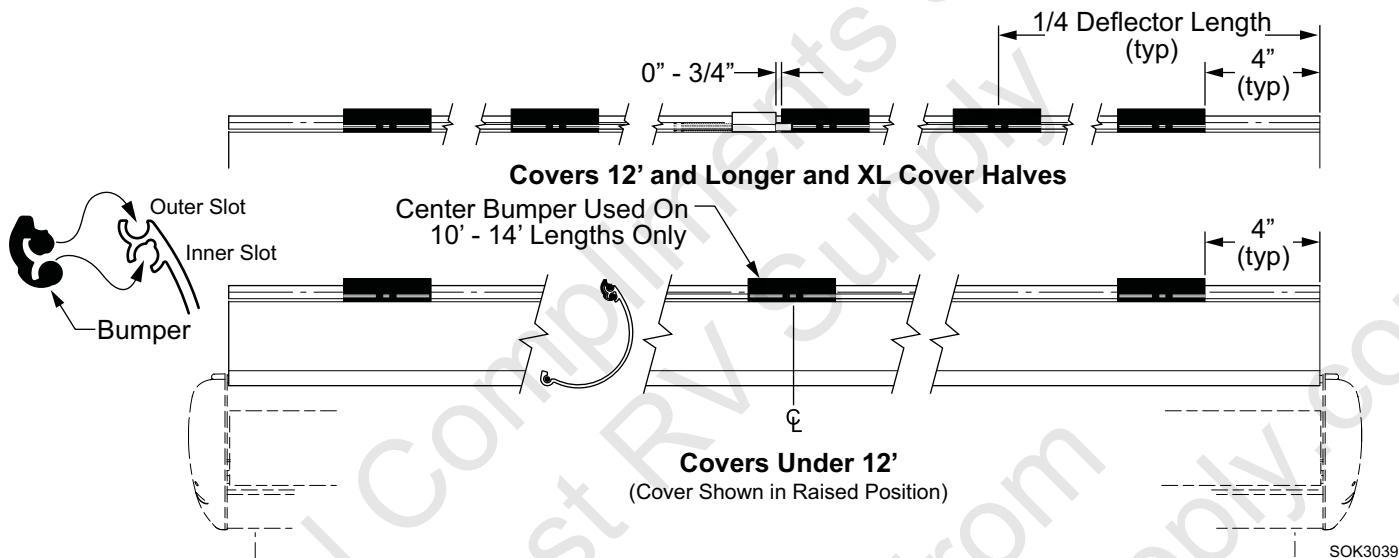
The cover is shipped with bumpers to prevent rattling. Quantities are two (2) for units under 10"; three (3) for units 10' to 14' and five (5) for units 14' and longer.

To replace missing or damaged bumpers:

1. In the positions shown, fully press the first round section into the inner slot. This is the same slot that the latch springs or cover attach screws mount in. Please note the orientation of the bumper.

*Tip: Press one end of the bumper into the slot. While holding the bumper in place, gently stretch the bumper. This will temporarily make the diameter smaller and easier to press into the slot.*

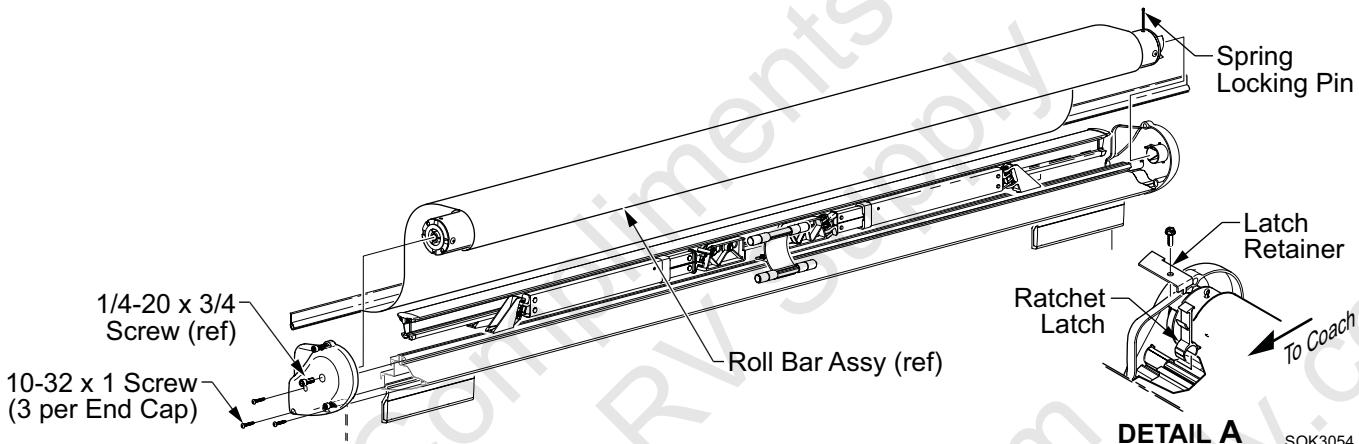
2. Stretch the bumper around and press the second round section into the outer slot.



## END CAP REPLACEMENT

### NOTES:

- a) All replacement end caps use the threaded screw mounts for the cover. All replacement covers are attached using the threaded screw mounts. Refer to the illustration on page 4.
- b) For first time replacement of end caps used with the spring-loaded pin cover attach, it will be necessary to replace both end caps.
- c) The original cover with spring-loaded pins is no longer available as a replacement part. If it is necessary to replace the cover, it will also be necessary to replace the end caps (both). Mounting screws are included with the end caps.
- d) If replacing a cover with the spring-loaded pins, it will be necessary to replace the end caps for the threaded screw mount style.



1. Remove the front cover if installed (refer to page 4 or page 6 for XL models).
2. Insert a 3 inch cotter pin through the roll bar and spring on the right end of the roll bar. It may be necessary to twist the roll bar to align the holes. Bend the ends over to ensure the pin does not accidentally come out.
3. *For older units with the ratchet latch (Detail A):* Remove the latch retainer and latch. These will not be reused.
4. Remove the 1/4-20 x 3/4 socket head cap screw from the left end cap. Lift the left end of the roll bar and pull the roll bar out of the right end cap. Set the roll bar and fabric out of the way (i.e. on the roof). It is not necessary to remove from the coach.
5. Remove the attaching screws and end caps and set aside.
6. Install the new end caps.
7. Roll up any slack material onto the roll bar and install the roll bar into the new end caps.
8. Attach the front cover (refer to page 4 or page 7 for XL models).

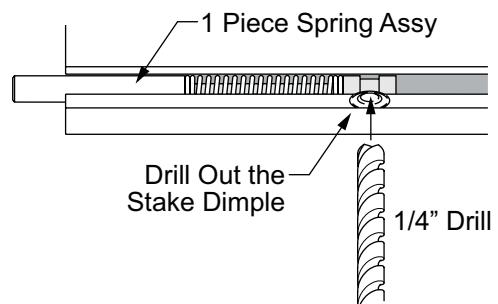
**NOTE: For first time installation with the replacement end caps: The bottom screw holes are threaded at the factory. It will be necessary to force-thread the top holes in the end cap using the supplied screws. The screws do not thread into the cover.**

### *Notes on Using an Existing Cover*

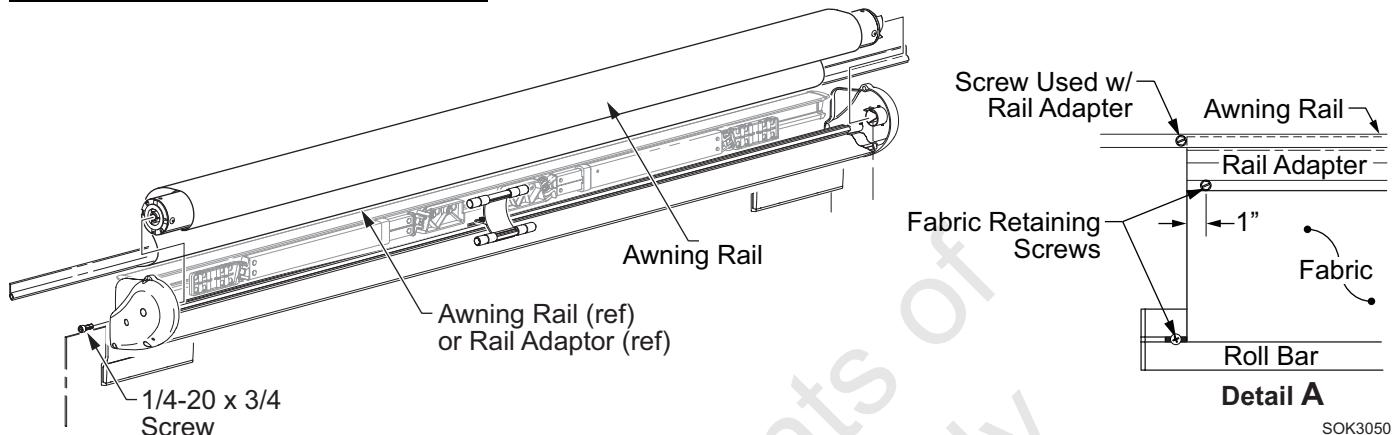
Existing covers with the spring-loaded pins can be used with the thread style end caps by pulling the spring-pins out of the cover; most pins can be removed with a pair of pliers.

Some later models in 2007 uses a 1-piece spring assy. This assembly is staked into the cover and will not pull out.

- To remove these pins, set the cover onto a padded surface (to avoid scratches).
- Using a 1/4" drill, carefully drill out the stake. The pin assembly can then be removed.
- Be sure to deburr and clean the drilled area and remove all debris and sharp projections that could damage the canopy when the room is closed.



## CANOPY REPLACEMENT



**Figure 6. Canopy Replacement.**

### Removing the Old Fabric

1. Remove the fabric retaining screws from the awning rail or rail adapter. Do not discard.
2. Remove the front cover if installed.
3. For XL Models: Remove the cotter pin and center cover mount. Set parts aside.
4. Insert a 3 inch cotter pin through the roll bar and spring on the right end of the roll bar. It may be necessary to twist the roll bar to align the holes. Bend the ends over to ensure the pin does not accidentally come out.
5. Remove the 1/4-20 x 3/4 socket head cap screw from the left end cap. Lift the left end of the roll bar and pull the roll bar out of the right end cap.
6. Hold the rollbar and slide the fabric out of the awning rail or rail adaptor.

**CAUTION**

**WHEN UNROLLING AND ROLLING FABRIC ON THE ROLL BAR, DO NOT LET THE SPRING LOCK COTTER PIN COME OUT.**

7. On a suitable work surface, unroll the fabric from the roll bar
8. Remove the fabric retaining screws in the roll bar then slide the fabric out of the groove. Make note of which end is left and right and the orientation of the fabric when it was rolled.

### Installing the New Fabric

1. Unfold the new fabric and slide the edge of the fabric (edge with black polycord) into the rollbar. The fabric can only be inserted from the left side of the rollbar.

**NOTE: The black polycord should only extend past the fabric approximate 1/2" to 1". Trim any excess polyrod off before sliding the fabric into the rollbar.**

2. Center the fabric on the rollbar then reinstall the fabric retaining screws. The screws should go through the polycord and into the roll bar. Do not put the screws through the fabric. (Refer to Detail A).
3. Roll the fabric onto the rollbar. Make sure that the fabric rolls up straight.
4. Slide the white polyrod and fabric into the awning rail. Center the fabric and rollbar over the room.
5. Roll up any slack material onto the roll bar.
6. Slide the right end of the roll bar into the right end cap then set the left end of the roll bar into the left end cap. Attach with one (1) 1/4-20 x 3/4 socket head screw (removed earlier) through the left end cap.

**NOTE: The roll bar cogs engage a protrusion in the right end cap.**

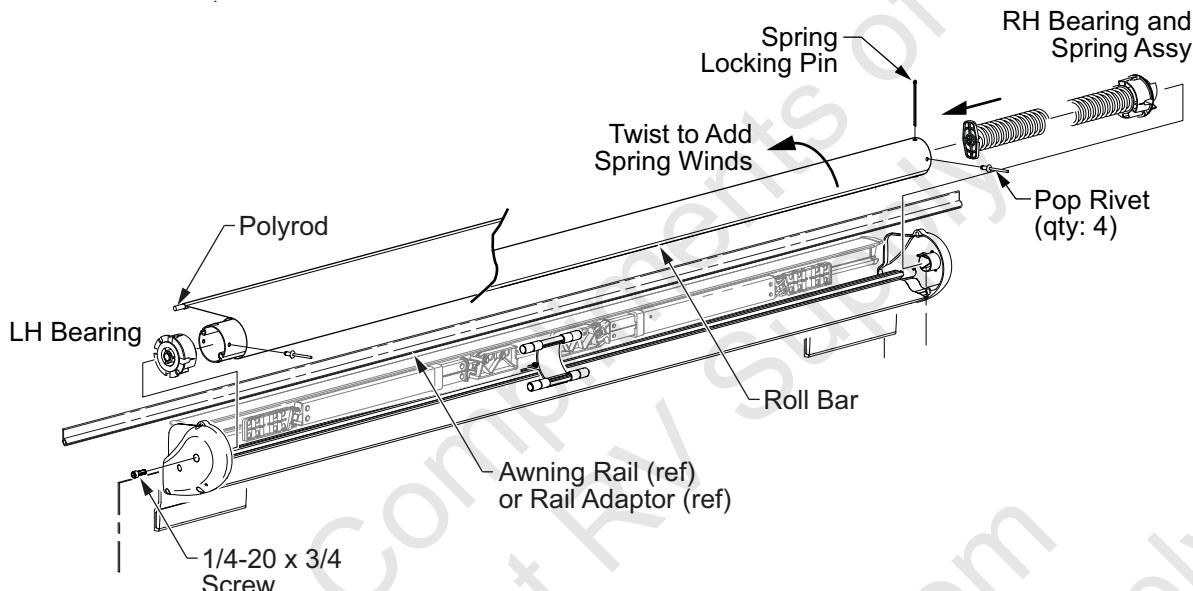
7. For XL Models: Insert the center cover mount into the deflector splice and around the rolled fabric. Secure with a new cotter pin (included with replacement fabric).
8. Firmly grasp the rollbar and fabric then remove the spring lock cotter pin inserted on the spring end of the rollbar. Allow the spring to tension the fabric slowly while releasing the rollbar.
9. Open and close the room to verify the fabric is rolling up straight. Adjust as required.
10. Reinstall the fabric retaining screws in the awning rail or adapter. The screws should go through the rail, fabric and polycord approximately 1" in from the edge of the fabric. (Refer to Detail A).
11. Install the front cover:

## STANDARD SPRING/ROLL BAR REPLACEMENT

The following procedure is used to replace the roll bar or spring or both.

### **WARNING**

THESE PROCEDURES DEAL DIRECTLY WITH THE PRE-WOUND SPRING TENSION IN THE ROLL BAR. FAILURE TO EXERCISE CARE AND/OR FAILURE TO FOLLOW THE INSTRUCTIONS CAN RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE. IF THE SPRING IS PREMATURELY RELEASED, THE ROLL BAR CAN SPIN OUT OF CONTROL AND CAUSE PERSONAL INJURY AND/OR PROPERTY DAMAGE.



SOK3051

### REMOVING THE ROLL BAR ASSEMBLY

1. Close the room if open.
2. Remove the front cover if installed.
3. Insert a 3 inch cotter pin through the roll bar and spring on the right end of the roll bar. It may be necessary to twist the roll bar to align the holes. Bend the ends over to ensure the pin does not accidentally come out.
4. Remove the 1/4-20 socket head screw from the left end cap and set aside. Do not discard.
5. Lift the roll bar up and out of the deflector case. To lift the roll bar, lift the left end first then slide the roll bar out of the right end cap.
6. Unroll the fabric from the roll bar.
7. Remove the fabric retaining screws in the roll bar then slide the roll bar to the right and off of the fabric. Fabric can only be removed from the left end of the roll bar.
8. If replacing only the roll bar and/or spring only:
  - Fold the fabric on top of the coach and out of the way.
9. If replacing the fabric and roll bar and/or spring:
  - Remove the fabric screws in the awning rail or rail adaptor and set aside.
  - Slide fabric out of the awning rail or rail adaptor and remove from the coach.
10. Remove the old spring tension.
  - Reinstall the roll bar in the deflector assy.
  - While firmly holding the roll bar, have a second person pull the spring locking pin. Allow the roll bar to slowly unwind completely.

### **CAUTION**

USE A PAIR OF GOOD QUALITY WORK GLOVES TO PROTECT THE HANDS WHILE HOLDING ONTO THE ROLL BAR.  
INSULATED RUBBER GLOVES PROVIDE A SOLID GRIP. DO NOT ALLOW THE ROLL BAR TO SPIN FREELY.

11. Remove the roll bar from the deflector after the spring is completely unwound.

## REBUILDING THE ROLL BAR ASSEMBLY

1. Drill out the rivets holding the LH bearing and RH bearing and spring assy. Remove and set aside the parts to be replaced.
2. Fully insert the LH bearing assembly into the roll bar and rivet in place using 3/16" pop rivets.
3. Fully insert the RH bearing and spring assembly into the roll bar and rivet in place.
4. Lift the assembled roll bar (no fabric) up and install into the deflector assembly. Slide the right end of the roll bar into the right end cap then set the left end of the roll bar into the left end cap. Attach with one (1) 1/4-20 x 3/4 socket head screw through the left end cap.

### CAUTION

THE NEXT STEPS ARE ADDING TENSION TO THE SPRING. IT IS STRONGLY RECOMMENDED THAT TWO PEOPLE PERFORM THE OPERATION. USE EXTREME CARE, IF THE SPRING IS PREMATURELY RELEASED, THE ROLL BAR CAN SPIN OUT OF CONTROL AND CAUSE PERSONAL INJURY AND/OR PROPERTY DAMAGE. SEE THE CAUTION ABOVE ABOUT THE USE OF GLOVES.

5. Firmly grasp the roll bar and twist toward the coach. Each full rotation of the roll bar is equal to one wind of the spring. Continue to rotate the roll bar until the appropriate number of spring winds is achieved.  
for lengths 96" and under = 13 winds  
for lengths 97" - 191" = 20 winds (not including XL models)  
for lengths 192" and longer= 15 winds (XL models only)
6. On the right end of the roll bar insert a cotter pin through the roll bar and spring. It may be necessary to rotate the roll bar to align the holes. Bend the ends over to ensure the pin does not accidentally come out.
7. Remove the roll bar from the deflector.

## INSTALLING THE ROLL BAR

1. *If the fabric was left on the coach:*
  - Slide the roll bar on to the fabric. The fabric can only be inserted from the LEFT end of the roll bar.
  - Center the fabric and roll bar and secure using two (2) #6 x 3/8 phillips head screws through the polycord and rollbar. Do not put the screws through the fabric. (refer to Detail A on page 10)
  - Roll the fabric onto the roll bar. The fabric goes over the top of the roll bar toward the coach.
2. *If the fabric was removed from the coach:*
  - Slide the fabric (black polycord) on to roll bar. The fabric can only be inserted from the LEFT end of the roll bar.
  - Center the fabric and roll bar and secure using two (2) #6 x 3/8 phillips head screws through the polycord and rollbar. Do not put the screws through the fabric.
  - Roll the fabric onto the roll bar. The fabric goes over the top of the roll bar toward the coach.
  - Slide the white polyrod and fabric into the awning rail. Center the fabric over the room.
  - Roll up the slack material onto the roll bar.
3. Slide the right end of the roll bar into the right end cap then set the left end of the roll bar into the left end cap. Attach with one (1) 1/4-20 x 3/4 socket head screw through the left end cap.
4. Remove the spring locking pin from the roll bar.
5. Open and close the room to ensure that the fabric is rolling up straight on the rollbar. For existing canopies it may be necessary to remove the retaining screws from the rail, Straighten the fabric as required.
6. Secure the fabric to the rail with two (2) #6 x 3/8 hex head screws.

## REPLACING THE XL ROLL BAR

If the roll bar exhibits recognizable bowing then it is recommended that it be replaced with an updated roll bar assembly. Part number for the complete roll bar assembly is 33xxx. The replacement assembly includes the roll bar halves, rivets, end caps and pre-wound spring.

**NOTE: Because of the length of the XL roll bar, the process requires 2-3 people.**

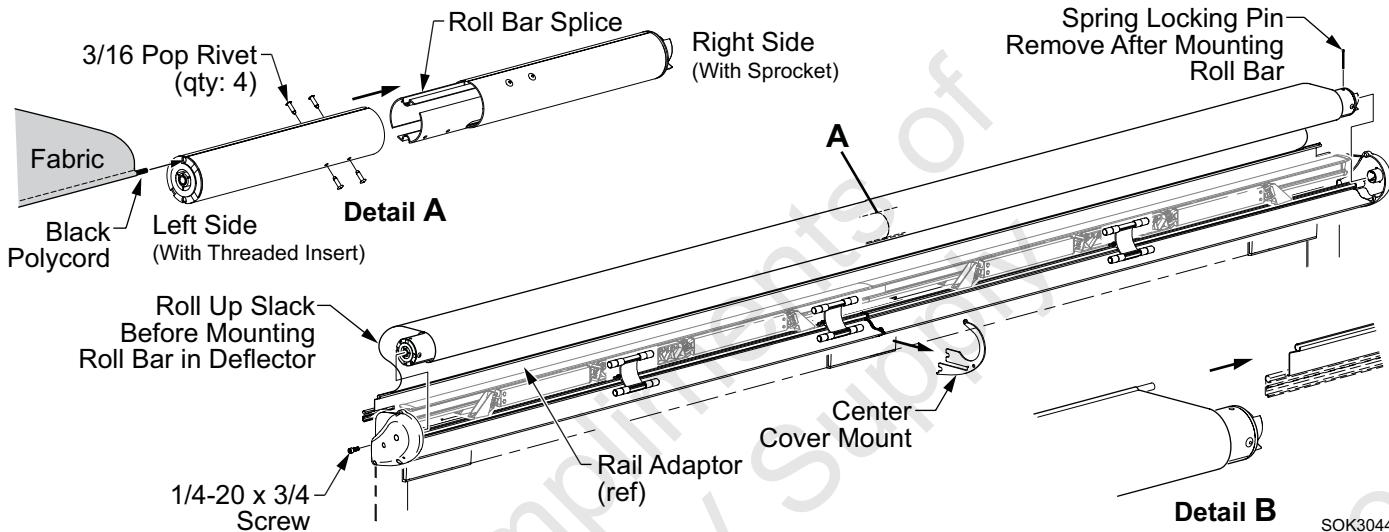


Figure 7. Replacing the XL Roll Bar.

1. Assemble the new roll bar:

- (Detail A) Slide the roll bar halves together. The splice is a tension fit. It may be necessary to tap one end of the roll bar to press the two halves together. Align the predrilled rivet holes in the roll bar and the splice.

**!CAUTION**

USE CARE TO NOT BEND OR DISTORT THE ROLLBAR. IF IT IS NECESSARY TO TAP THE END OF THE ROLL BAR, USE CARE TO NOT DAMAGE THE ENDCAP.

- Attach the roll bar half to the splice using four (4) 3/16" pop rivets.

**NOTE: If the rivets holes are slightly misaligned, use a #10 drill bit and ream the holes to allow the pop rivet to be pushed in.**

2. Close the room if open.
3. Remove the front covers.
4. Insert a cotter pin through the old roll bar and spring on the right end. It may be necessary to twist the roll bar back and forth to align the holes. Bend the ends over to ensure the pin does not accidentally come out.
5. Remove the center cover mount from the deflector. Save the bracket and cotter pin.
6. Remove the 1/4-20 socket head screw from the left end cap and set aside. Do not discard.
7. Lift the roll bar up and out of the deflector case. To lift the roll bar, lift the left end first then slide the roll bar out of the right end cap.
8. If replacing the fabric and roll bar:
  - Remove the fabric screws in the awning rail adaptor and set aside.
  - Slide the roll bar and fabric out of the rail adaptor and remove from the coach.
  - Unfold the new fabric and slide the edge of the fabric (edge with black polycord) into the replacement rollbar. The fabric can only be inserted from the left side of the rollbar.
  - Center the fabric on the roll bar and secure using two (2) #6 x 3/8 phillips head screws through the polycord and rollbar. Do not put the screws through the fabric. (Refer to Detail A on page )

- Roll the fabric onto the rollbar. The fabric must be oriented around the roll bar as shown.
- (*Detail B*) Slide the white polyrod and fabric into the awning rail adaptor. Ensure that the two halves of the adaptor are pushed together (no gaps). Center the fabric over the room.

9. *If replacing only the roll bar:*

- Unroll the fabric from the roll bar.
- Remove the fabric screws in the roll bar and set aside.
- Slide the roll bar to the right while holding the fabric. The fabric can only be removed through the left end of the roll bar. Set the roll bar aside. The fabric can hang down the side of the coach.
- Lift the new roll bar up and slide onto the edge of the fabric (edge with black polycord). The fabric can only be inserted into the left side of the rollbar.
- (*Detail B*) Center the fabric and roll bar and secure using two (2) #6 x 3/8 phillips head screws through the polycord and rollbar. Do not put the screws through the fabric. (Refer to Figure 8)

10. Roll up the slack material onto the roll bar.

11. Slide the right end of the roll bar into the right end cap then set the left end of the roll bar into the left end cap. Attach with one (1) 1/4-20 x 3/4 socket head screw through the left end cap.

12. Remove the spring locking pin from the roll bar.

13. Open and close the room to ensure that the fabric is rolling up straight on the rollbar. For existing canopies it may be necessary to remove the retaining screws from the rail adaptor, Straighten the fabric as required.

14. If not previously done, secure the fabric to the rail adaptor with two (2) #6 x 3/8 hex head screws.

15. Reattach the center cover mount.

16. Reattach the covers.

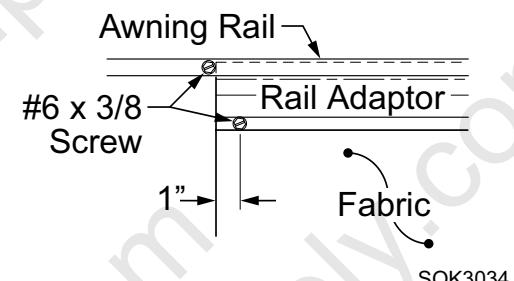
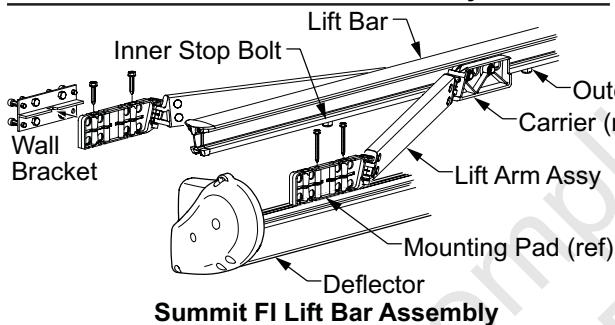
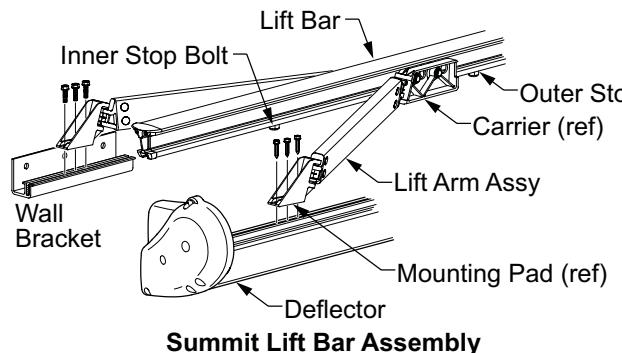


Figure 8. Securing the Fabric.

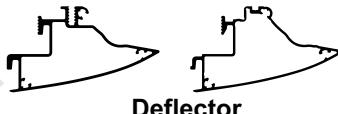
## REPLACING THE LIFT BAR COMPONENTS

These instructions apply to the basic Summit and Summit FI.



Lift Arm Attaching Screws

	Wall Bracket	Style 1	Style 2
<b>Summit</b>	#10 x 3/4 Thread Type A	#10 x 3/4 Thread Type A	#10 x 1 Self-Drilling
<b>Summit FI</b>	#12 x 1 1/4 Self-Drilling	#10 x 2 Thread Type A	#10 x 2 1/2 Self-Drilling



SOK3052

1. Close the room if open.
2. Remove the front cover (refer to page 4).
3. For XL Models: Remove the cotter pin and center cover mount. Set parts aside.
4. Insert a 3 inch cotter pin through the roll bar and spring on the right end of the roll bar. It may be necessary to twist the roll bar to align the holes. Bend the ends over to ensure the pin does not accidentally come out.
5. Remove the 1/4-20 socket head screw from the left end cap and set aside. Do not discard.
6. Lift the roll bar up and out of the deflector case. To lift the roll bar, lift the left end first then slide the roll bar out of the right end cap. Set the roll bar and fabric on the roof out of the way.

### TO REPLACE THE LIFT ARMS

1. Loosen the outer stop bolt and slide out of the channel and save.
2. Remove the screws from the inner and outer mounting pads and save.
3. Slide the arm set off of the lift bar.

**NOTE:** If replacing an inner arm set on an XL model, it will be necessary to repeat steps 1 - 3 until the affected arm set is removed from the coach.

4. Slide the new arm set onto the lift bar and attach to the wall bracket and deflector in the same location as the old arm set.

**NOTE:** Refer to the descriptive chart in the illustration for the correct screws used to attach the pads. In 2007 the deflector profile was modified and requires different screws than the previous profile. Examine the deflector to determine if it is style 1 or style 2.

5. Slide the outer stop bolt into the lift bar channel. Go to "Setting the Stop Bolts" on page 16.

## TO REPLACE THE LIFT BAR

1. Loosen and remove the outer stop bolts. Set bolts aside.
2. Loosen the inner stop bolts.
3. Begin sliding the lift bar out of the carriers. When the bar clears the first carrier, remove the inner stop bolts from the channel and set aside. Continue sliding the lift bar out of the remaining carrier.
4. Begin sliding the new lift bar into the carriers. When the bar is through the first carrier, slide the inner stop bolts (qty: 2) into the channel. Continue sliding the lift bar into the remaining carrier.
5. Slide the outer stop bolts into the lift bar channel. Go to "Setting the Stop Bolts" on page 16.

## SETTING THE STOP BOLTS

1. Extend the room out completely.
2. Center the lift bar over the room. Tighten the two OUTER stop bolts. These should be placed next to the outer face of the carriers but with adequate clearance for a socket or closed end wrench to fit over the bolt head.
3. Close the room.
4. Center the lift bar over the room. Tighten the two INNER stop bolts. These should be placed next to the inner face of the carriers but with adequate clearance for a socket or closed end wrench to fit over the bolt head.
5. Install the roll bar:
  - Roll up any slack material onto the roll bar.
  - Slide the right end of the roll bar into the right end cap then set the left end of the roll bar into the left end cap. Attach with one (1) 1/4-20 x 3/4 socket head screw (removed earlier) through the left end cap.

**NOTE: The roll bar cogs engage a protrusion in the right end cap.**

  - For XL Models: Insert the center cover mount into the deflector splice and around the rolled fabric. Secure with a new cotter pin (included with replacement fabric).
  - Firmly grasp the rollbar and fabric then remove the spring lock cotter pin inserted on the spring end of the rollbar. Allow the spring to tension the fabric slowly while releasing the rollbar.
6. Install the front cover:

## STANDARD MAINTENANCE

Maintaining a Carefree SOKIII or Summit side-out cover is easy. Just follow these basic steps:

- Periodically check that the fasteners are tight. Tighten if necessary.
- Keep the awning fabric and lift arms clean.

## FABRIC CARE

### CAUTION

**DO NOT USE OIL BASED CLEANERS OR ANY CAUSTIC, GRANULATED, OR ABRASIVE TYPE CLEANERS ON YOUR CAREFREE PRODUCT.**

1. One of the best ways to keep the fabric looking good and to delay the need for deep or vigorous cleanings is to hose fabrics off on a monthly basis with clear water. This practice will help prevent dirt from becoming deeply imbedded in the fabric. In most environments, a thorough cleaning will be needed every two to three years.
2. When it's time for a thorough cleaning, the fabric can be cleaned while still on the awning frame.
  - For Vinyl Fabric – Use a soft brush and warm water with soap.
  - For Acrylic Fabric – Use a stiff brush and warm water with soap.
3. When cleaning the fabric, it is important to observe the following:
  - Always use a natural soap, never detergent.
  - Water should be cold to lukewarm, never more than 100°F.
  - Air-dry only. Never apply heat to the fabric.
  - Always allow the fabric to dry thoroughly before rolling up the awning.

### *Mildew*

Mildew is a fungus growth that looks like dirt. Vinyl coated polyester fabrics are mildew resistant because of a chemical biocide in the vinyl coating. Under ordinary conditions, mildew will not appear. However, in areas where high temperature and humidity are common, mildew can be a problem and required the material to be washed more frequently. Thoroughly rinse the fabric with clean water and allow to air dry completely before rolling up the awning.

### *Pooling*

When water collects on the top of the fabric, this is known as "pooling". This can occur during inclement weather or if a running air conditioner discharges over the awning. The water is dumped when the awning is retracted. It is recommended that if water accumulates on the top; retract the awning in steps (8"-12") to dump the water. This will help prevent the fabric from stretching or distorting.

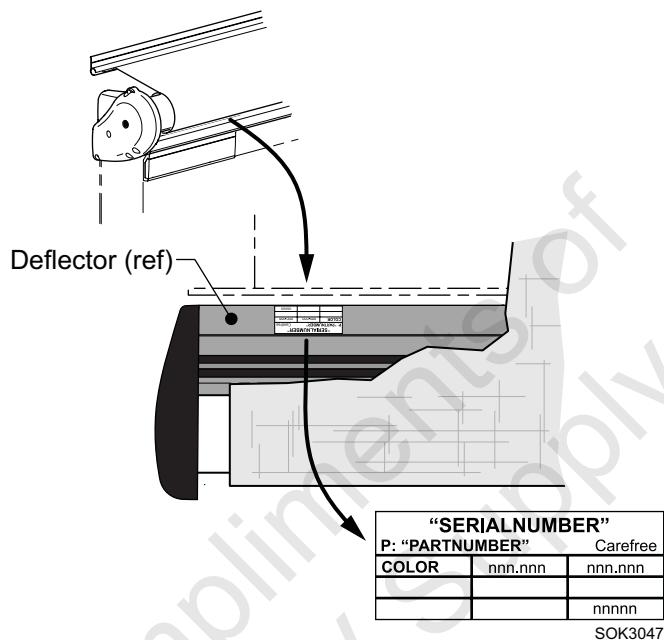
**IMPORTANT NOTE: If the room must be closed during wet weather (rain), close the room in increments (approximately 6-8"). This is to allow water to run off while the room is closing and prevent sudden pooling.**

## HARDWARE MAINTENANCE

- Replace any parts that become damaged.
- Periodically check all mounting hardware, screws, lags, etc., and re-tighten when necessary.

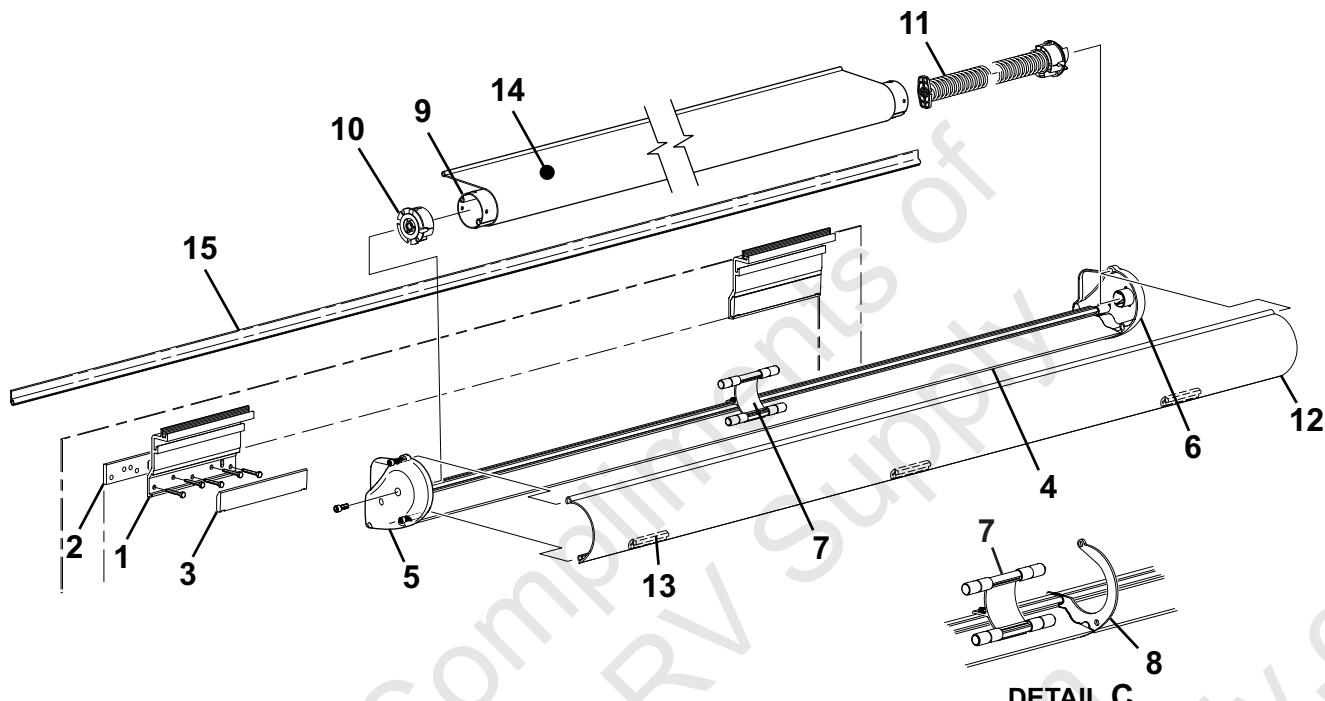
## PART NUMBER LISTING

### PART NUMBER/SERIAL NUMBER LOCATION



The part number/ serial number tag for the SOKIII & Summit is located on the deflector toward the back. This is under the canopy.

## SOK III ILLUSTRATED PARTS LIST

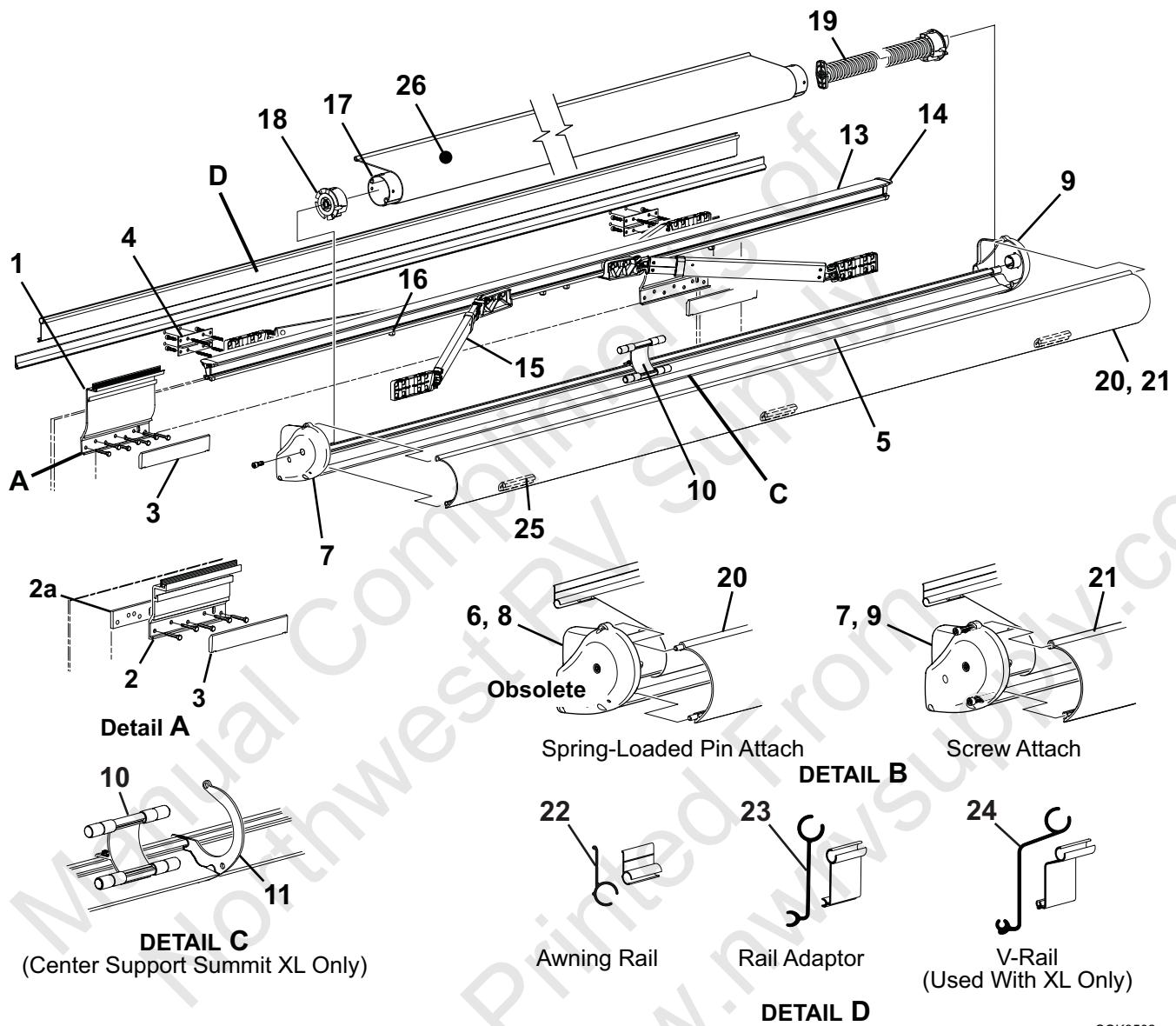


SOK3503

Item	Part Number	Description	Notes
1	R001150XXX	Bracket, Deflector Mount, Short	
2	R001151XXX	Spacer, 1/4", Deflector Bracket	
3	R001153XXX-xxx	Cover, Deflector Mount Bracket	
4	R001338XXX-xxx	Deflector Assy	XL Only
5	R001339XXX-xxx	Deflector Assy, LH	XL Only
6	R001520XXX	Deflector Assy, RH	
7	R001521XXX	End Cap, LH	Screw Cover Attach
8	R001156	End Cap, RH	Screw Cover Attach
9	R036428-001	Roller Support	
10	610400-xxx	Center Support Plate	XL Only
11	33xxx	Roller Tube	XL Only
12	R001164	Roller Tube Assy	XL Only
13	R001165	End Cap Assy, Roll Bar, LH	2
14	R001165XL	Spring Assy	
15	R001169XXX-xxx	Spring Assy	XL Only
	R001337XXX-xxx	Front Cover Assy	XL Only
	R001364	Front Cover Assy	pkg of 4
	0157xxx	Bumper, Deflector, Rubber	
		Canopy Only	Refer to Canopy Order Form
		Awning Rail	

- Notes:
1. XXX = Color; xxx = Length in Inches
  2. The XL replacement Roller Tube Assy includes the roll bar halves, splice, rivets, end caps and pre-wound spring.
  3. XL replacement cover includes both the LH and RH halves.

## SUMMIT FI ILLUSTRATED PARTS LIST



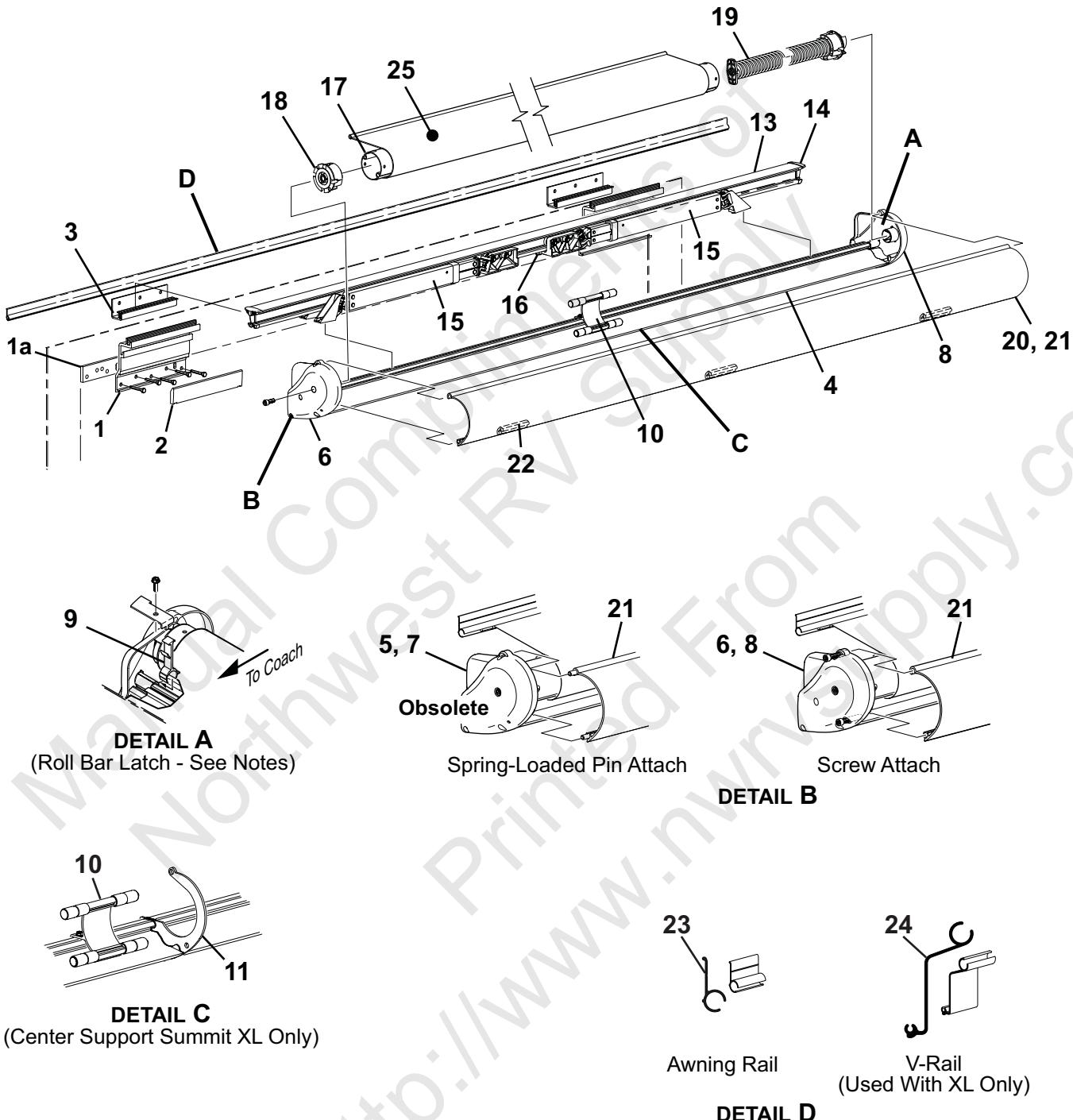
SOK3502sm

Item	Part Number	Description	Notes
1	R001150XXX-T	Bracket, Deflector Mount, Tall	
2	R001150XXX	Bracket, Deflector Mount, Short	
2a		Spacer, 1/4", Deflector Bracket	
3	R001151XXX	Cover, Deflector Mount Bracket	
4	R001250	Bracket, Lift Bar Assy Mount	
5	R001153XXX-xxx	Deflector Assy	
	R001338XXX-xxx	Deflector Assy, LH	XL Only
	R001339XXX-xxx	Deflector Assy, RH	XL Only
6	Obsolete	End Cap, LH	Spring Pin Cover Attach
7	R001520XXX	End Cap, LH	Screw Cover Attach
8	Obsolete	End Cap, RH	Spring Pin Cover Attach
9	R001521XXX	End Cap, RH	Screw Cover Attach
10	R001156	Roller Support	
11	R036428-001	Center Support Plate	XL Only
12	GEXXX17	Lift Bar Assy	12"-16.9" Room Extension
	GEXXX26	Lift Bar Assy	17"-26" Room Extension
	GEXXX42	Lift Bar Assy	26.1"-42" Room Extension
13	R001160-xxx	Lift Bar	
	R001346XXX-xxx	Lift Bar	XL Only
14	R001161	End Cap, Lift Bar	
15	R001162-17FI	Extension Arm Assy	12"-16.9" Room Extension
	R001162-26FI	Extension Arm Assy	17"-26" Room Extension
	R001162-42FI	Extension Arm Assy	26.1"-42" Room Extension
	R001361-xx	Set Arm Assy, FI	XL Only
16	R001176	Stop Bolt	
17	610400-xxx	Roller Tube	
	33xxx	Roller Tube Assy	XL Only
18	R001164	End Cap Assy, Roll Bar, LH	
19	R001165	Spring Assy	
	R001165XL	Spring Assy	XL Only
20	R001169XXX-xxx	Front Cover Assy, Spring Pin Attach	
21	R001337XXX-xxx	Front Cover Assy, Spring Pin Attach	XL Only
22	0157xxx	Awning Rail	
23	R001193-xxx	Awning Rail Adaptor	Optional used w/ FI
24	R038130-xxx	V- Rail	XL Only
25	R001364	Bumper, Deflector, Rubber	pkg of 4
26		Canopy Only	Refer to Canopy Order Form

Notes:

1. XXX = Color; xxx = Length in Inches
2. Items 12 includes items 13, 14, 15, 16
3. The XL replacement Roller Tube Assy includes the roll bar halves, splice, rivets, end caps and pre-wound spring.
4. XL replacement extrusions and extrusion assemblies are sent out in two pieces and assembled during installation.
5. End caps (Items 6, 8) are obsolete. If replacing end caps, it will be necessary to use items 7 & 9; remove the spring pins from the ends of the cover and attach the cover to the new end caps with screws. Use the product installation manual for detailed attachment instructions.
6. For older assemblies with the spring pin attachment: If replacing the cover assembly, it will also be necessary to replace the end caps for the screw mount style (items 6, 8). New covers are mounted with screws. Also refer to note 5.
7. XL replacement cover includes both the LH and RH halves.

## BASIC SUMMIT ILLUSTRATED PARTS LIST



Item	Part Number	Description	Notes
1	R001150XXX	Bracket, Deflector Mount, Short	
1a		Spacer, 1/4", Defector Bracket	
2	R001151XXX	Cover, Deflector Mount Bracket	
3	R001152	Bracket, Lift Bar Assy Mount	
4	R001153XXX-xxx	Deflector Assy	
	R001338XXX-xxx	Deflector Assy, LH	XL Only
	R001339XXX-xxx	Deflector Assy, RH	XL Only
5	Obsolete	End Cap, LH	Spring Pin Cover Attach
6	R001520XXX	End Cap, LH	Screw Cover Attach
7	Obsolete	End Cap, RH	Spring Pin Cover Attach
8	R001521XXX	End Cap, RH	Screw Cover Attach
9	Obsolete	Roll Bar Latch	
10	R001156	Roller Support	
11	R036428-001	Center Support Plate	XL Only
12	ZEXXX17	Lift Bar Assy	12"-16.9" Room Extension
	ZEXXX26	Lift Bar Assy	17"-26" Room Extension
	ZEXXX42	Lift Bar Assy	26.1"-42" Room Extension
13	R001160-xxx	Lift Bar	
	R001346XXX-xxx	Lift Bar	XL Only
14	R001161	End Cap, Lift Bar	
15	R001162-17	Extension Arm Assy	12"-16.9" Room Extension
	R001162-26	Extension Arm Assy	17"-26" Room Extension
	R001162-42	Extension Arm Assy	26.1"-42" Room Extension
	R001347-xx	Set Arm Assy,	XL Only
16	R001176	Stop Bolt	
17	610400-xxx	Roller Tube	
	33xxx	Roller Tube Assy	XL Only
18	R001164	End Cap Assy, Roll Bar, LH	
19	R001165	Spring Assy	
	R001165XL	XL Spring Assy	XL Only
20	R001169XXX-xxx	Front Cover Assy	
21	R001337XXX-xxx	Front Cover Assy	XL Only
22	R001364	Bumper, Deflector, Rubber	
23	0157xxx	Awning Rail	
24	R038130-xxx	V- Rail	XL Only
25		Canopy Only	Refer to Canopy Order Form

Notes:

1. XXX = Color; xxx = Length in Inches
2. Items 12 includes items 13, 14, 15, 16
3. The roll bar latch has been discontinued. For spares order RH end cap (item 8). Also refer to note 6.
4. The XL replacement Roller Tube Assy includes the roll bar halves, splice, rivets, end caps and pre-wound spring.
5. XL replacement extrusions and extrusion assemblies are sent out in two pieces and assembled during installation.
6. End caps (Items 5, 7) are obsolete. If replacing end caps, it will be necessary to use items 6 & 8; remove the spring pins from the ends of the cover and attach the cover to the new end caps with screws. Use the product installation manual for detailed attachment instructions.
7. For older assemblies with the spring pin attachment: If replacing the cover assembly, it will also be necessary to replace the end caps for the screw mount style (items 6, 8). New covers are mounted with screws. Also refer to note 6.
8. XL replacement cover includes both the LH and RH halves.

---

**NOTES:**

**This Manual is Compliments of**

# **Northwest RV Supply**

86325 College View Road  
Eugene, OR 97405

Local: 541-746-9092  
Toll-Free: 866-678-7467  
Fax: 541-736-5573

<http://www.nwrvsupply.com>  
[mail@nwrvsupply.com](mailto:mail@nwrvsupply.com)

Northwest RV Supply carries a large spectrum of surplus, used, and new RV parts and components. Please feel free to visit our website for additional information.